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☐ 1. Document ID: US 6433736 B1

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L33: Entry 1 of 4

File: DWPI

Aug 13, 2002

DERWENT-ACC-NO: 2003-056596

DERWENT-WEEK: 200305

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TITLE: Self scan radio frequency tracking antenna apparatus mounted on mobile platform e.g. marine vessel, has attitude heading reference system which is

mechanically connected to directional antenna

INVENTOR: BOWEN, D G; OWNBY, M L; TIMOTHY, L K

PRIORITY-DATA: 2000US-0718680 (November 22, 2000)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 6433736 B1

August 13, 2002

015

H01Q003/00

INT-CL (IPC): H01 Q 3/00

Full Title Citation Front Review Classification Date Reference Sequence Attachments Claims KWC Draw De

2. Document ID: JP 2001094619 A

L33: Entry 2 of 4 File: DWPI Apr 6, 2001

DERWENT-ACC-NO: 2001-340791

DERWENT-WEEK: 200136

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Digital modulation transmitting apparatus for non-directional <u>beacon</u> samples

<u>audio</u> signal that is input from external at fixed carrier frequency

Full Title Citation Front Review Classification Date Reference **Sequences Attachnesis** Claims KWC Draw De

3. Document ID: GB 1554718 A

L33: Entry 3 of 4

File: DWPI

Oct 24, 1979

DERWENT-ACC-NO: 1979-K1031B

DERWENT-WEEK: 197943

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Record List Display Page 2 of 2

TITLE: Radio navigation system with omnidirectional beacon - has automatic weather sensor to monitor ambient condition and trigger controller in event of limiting condition

Full	Title Citation	Front Review	Classification	Date	Reference	Servences	Lettachments	Claims	KVA	MC D	raw. De
	4. Document II			ile:	DWPI			Oct 1	.8,	1979	

DERWENT-ACC-NO: 1979-K0416B

DERWENT-WEEK: 197943

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TITLE: Rotating <u>audio</u> radio <u>beacon</u> - uses cardioid and lobar fields to transmit

weather and directional information to aircraft

Full Title Citation Front Review	Classification Da	te Reference	Sequences	Attachments	Claims	KWMC	Draw, De
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... use of audio only interfaces as well, the audio beacon idea described ...

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... route had access to an environmental audio beacon (group 1). ...

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critical object in ... pilot's voice appear to come from the direction of the ...

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externalized audio beacon over. headphones. Although this system ...

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20040113.qrp v03_n164.qrl.20040113 Date: Tue, 13 Jan 2004 19:03:07 ...

... and a nudge in the right direction by Steve Weber, The mod to the older style

... www.njqrp.org/palmserialsender PSK31 Audio beacon Kit =96 Sold out! ...

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20030331.qrp v02 n876.qrl.20030331 Date: Mon, 31 Mar 2003 19:03:08 ...

... the Badger Smart badge / PSK31 Audio Beacon programming, and ... ARS Sojourner, is hot

off the virtual press, free ... coast stations in the other direction but most ...

www.ibiblio.org/pub/academic/agriculture/ agronomy/ham/QRP/20030331.qrp.v02_n876 - 89k - Supplemental Result -

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Figure 3 illustrates the concept of virtual auditory ... Orientation information -

direction of north, azimuth of any. two points ...

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20030331.qrp v02 n876.qrl.20030331 Date: Mon, 31 Mar 2003 19:03:08 ...

... people manning the Badger Smart badge / PSK31 Audio Beacon programming, ...

ZL6QH and west coast stations in the other direction but most contacts were ...

sunsite.tus.ac.jp/pub/academic/ agriculture/agronomy/ham/QRP/20030331.qrp.v02_n876 - 87k - Cached - Similar pages

From patt@courage.org Tue Oct 14 11:11:09 2003 Received: from ...

We will want to follow the net control's direction. ... I had an audio beacon

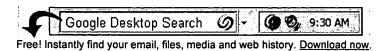
outside of my tent like the ones we had at Radio Camp, but I had my recording ...

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☐ 1. Document ID: US 20040030491 A1

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L23: Entry 1 of 2

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File: PGPB

Fwd Refs

Feb 12, 2004

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PGPUB-DOCUMENT-NUMBER: 20040030491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030491 A1

TITLE: Method and arrangement for guiding a user along a target path

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Bkwd Refs

RULE-47

Hull, Richard

Bristol

GB

US-CL-CURRENT: <u>701/207</u>; <u>701/200</u>

Full Title Citation	Front Review	Classification	Date	Reference	Sequences	Attachmenta	Claima	[[mb]]	Erraint De

2. Document ID: US 2017908 A

L23: Entry 2 of 2

File: USOC

Oct 22, 1935

US-PAT-NO: 2017908

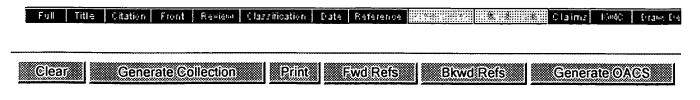
DOCUMENT-IDENTIFIER: US 2017908 A

TITLE: Direction finding apparatus

DATE-ISSUED: October 22, 1935

INVENTOR-NAME: AUGUST LEIB

US-CL-CURRENT: 342/428



Terms	Documents
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L23: Entry 2 of 2 File: USOC Oct 22, 1935

US-PAT-NO: 2017908

DOCUMENT-IDENTIFIER: US 2017908 A

TITLE: Direction finding apparatus

DATE-ISSUED: October 22, 1935

US-CL-CURRENT: 342/428

DOCUMENT TEXT:

Oct. 22, 1935. A. LFIB 2,017,908 DIRECTION FINDING APPARATUS Filed Llay 16, 1930 2 Shee,ts-Shoot I 14 c 16 dr /r w 4f INVENTOR, AUG iis. BY ATTORNEY

K-aiiented Oct. 22, 1935 2tol7 908 UNITED STATES. PAT-ENT OFFICE 2,017,908 D] IRECTION FLVDIING APPARATUS August Leib, Berlin, Germany, assignor to Telefunken GeseUschaft fiir Drahtlose Telegraphie m. b. H., Berlin, Germany,, a corporation of Germany APPIication May 16, 1930, Serial No. 452,838 l[n Germany July 26, 1929 7 Claims. (Cl. 250-11) The invention is concerned with an automatic direction-finder apparatus in which an optical indicator device rotates in synchronism with the coil antenna or with the direction-finder coil of a goniometer, the position of the direction-finder element characterizing the direction or correct bearing, the latter being indicated by the flashing-up or extinction, meaning either minimum or maximum signal strength, according to the 10 circuit arrangements that have been chosen. According to the invention, a plurality of optical indicators such as glowlamps, luminescent tubes, or the like, is mounted on a joint revolving indicator or signal device. These indicators 15 are energized in response to signals from a joint directional antenna system, direction-finder coil or goniometer search coil. Suitable resonance circuits or resonance relays are provided, each of such together with an indicator device controlled 20 thereby is coordinated to a definite radio beacon from which bearings are to be taken. If all of the indicators are readily distinguishable by a definite mark or characteristic stich as different colors, this constitutes an excellent and simple 25 means of simultaneously taking bearings from different separately located radio beacons, and in this manner it is directly feasible to obtain an idea respecting the position of the craft. Of course, it is also possible in this scheme to take 30 bearings selectively from certain radio beacons by disconnecting such indicators as are not de- sired. A better understanding of the invention will be had by a perusal of the following detailed de- 35 scription thereof in which reference is made to the figures i-n the annexed drawings, in wbich, Figure I shows an embodimeni of the invention: Figure la shows diagrammatically the circuits 40 of the radiogoniometer, the search coil and its connection with the receiver; Flgure 2 shows in detail a portion of the circuit of the arrangement of Figure 1; Figure 2a shows the signal indications derived 45 from the device of Mqure 1; Mgure 3 shows a modification of the circuit of Figure 2 Figure 3a shows the signal indica-tiois derived from the modified circuit of Flgure 3; while, 50 Flgures 4, 5, and 6 illustrate different modes of operating the novel direction finder. Figures I and la show an embodiment of the apparatus by way of example. A is a weatherproof cross-frame aerial, the windings L of which 85 are connected in a well'known manner with two goniometer coils Li which in the instance here shown are built into the base casing H of the frame in a manner to safeguard them from the inclemencies of the weather. The search coil S -o f the goniometer in the present case is &iven by 5 wind actuated vanes C; a sc me s par- ticularly suited for aircraft. It will be understood, of course, that also some other drive of suitable sort such as by an electric or gasoline motor may be used instead. The high frequency electrical 10 oscillations induced, in the search coil S of the goniometer are modulated by different low fre- quencies, most conveniently inside the audible range. Whenever bearings are to be taken from several beacons the sigiials from said beacons are 15 fed to the receiver E by way of slip rings F where they are reinforced or amplified and then con-verted, by an audion into lowfrequency oscilla- tions according to the particular modulating fre- quiencies impressed on the carrier frequencies re- 20 ceived. From the output circuit of the receiver, these oscillations are fed to a number of resonant relays either directly or, if necessary, after fur- ther amplification. Each one of these resonant relays is tuned to 25 a distinct frequency, say for example; R is tuned to 500, G to 700 and B to 900 cycle@ per second. These resonant relays may be, for instance, along the same lines as the vibratory relays known in the prior art. In relay@ of this kind the elastic o.r 30 spring contacts i under normal condition, i. e., in the state of rest, are constantly associated with the dittons or diapluagms k tuned to respond to a definite frequency. If t-hese latter are excited by resonant electromagnetic oscillations of the 35 corresponding relay winding, the spring contacts i are temporarily thrown off with the result that the mean contact resistance between i and k becomes very high. - These relay contacts are connected together by way of slip rings Q with 40 glow-lamps r, g, b, supplied from a battery M, said lamps being radially mounted upon a support 0 having the form of a disk, arm or bracket, and &iven in synchronism with the goniometer coil by means of the bevel-wheel gearing N and 45 associated shafting as shown in Figure 1. If the electrical connections have been so established that the glow-lamps r, g, b, are in series with the relay contacts actuating @nd controlling them as shown in Figure 2, each of said 50 lamps will flash up whenever the corresponding relay is deenergized. In operation this results in a luminous picture as shown in Figure 2a. The light segments v, v, of the lamp trajectory are located in the neighborhood o.' the position as

:0,017,908 indicating minimum signal strength. On. the other segments u, u of the lamp path during rotation the lamp is dark upon reception, because the corresponding relay is then energized and its contact broken.)? When the radio beacon stops sending the segments u, u, will flash up a@lso. V@hen the beacon sends out Morse signals, the segments v, v, remain permanently light, the segments u, u, become extinguished, that is, are dark 10 when dashes and dots are transmitted, while they glow or become, light during spaces. Hence, the signal is reproduced negatively. But if the circuit diagram as illustrated in Mgure 3 is chosen, where, the control contacts 15 axe connected in parallel tothe glow-lamps, in which case series resistances W are required, each of the lamps will flash up upon its relay being energized, while it goes out whenever the relay is de-energized. The lurninous picture of 20 the lamp trajectory as shown in Mgure 3a is in this case the reverse of what it was in the pre,eding circuit scheme. The segments v, v, for the minimum iignal strength remain permanently dark. The segments u, u, are lit when energy 26 is being received, and the Morse-code signals are here reproduced irt a positive manner. In order that the various lamps may be more easily distinguished it is suggested to choose different colors, for instance lamp r cowd be made 30 red, lamp g green, lamp b blue, and so on. The direction-finding position of the glowlamps may be read m(>st suitably on the fixed direction-finder scale or dial p. V@hile 'for the purpose of illustration I have 35 shown three, resonate circuits, three lamps and associated circuits it wM be nnderstood that more or less lamps may be used as conditions require without departing from the spirit of the invention. 40 It is readily possible to associate with one and

the same goniometer a plurality of receivers comprising each several resonant circuits or resonant relays. To other words, bearings can be taken simultaneously from a great number of radio 45 beacons operating on different carrier waves and different modulation frequencies, and to each of these a separate optical indicator may be coordinated. Since it is an easy riatter to connect and disconnect any desired number of indicators, 50 the radio beacons can be received simultaneously or separately. Mgure 4 ibustrates a modification.of my invention. Sr is a radio beacon operating on, for example, a wave of 1000 meters and a modulation 55 frequency of 500 cycles per second. In this case let It be assumed that the carrier wave propagated by radio beacon Sg is also 1000 meters but that the modulator frequency is 700 cycles per second. In the direction-finder the receiver is 60 tuned to a carrier wave of 1000 meters, the resonant relay R is tuned to 500 cycles per second and resonant relay G to 700 cycles per second. Hence, the red I=p r is coordinated to the radi6 beacon Sr and the green lamp g to the beacon 65 Sg. Now, if the craft is located at point a on a line connecting Sr and- Sg, then the corresponding signal strength niinima coincide for both radio beacons a fact which can be seen from the alignment of the segments v, v, and of 70, the two lamps r and g. But if the craft is located, say, at the point c, then the deviation'from the directrix, i\$ automagca, Uy Indicated by the direction-finder apparatus, in that the segment v of the green lamp 7ra has been shifted somewhat toward the right-hand side in relation to the segment v of the red lamp. Hence, the pilot knows that, in order to restgre the craft to the steering line or direbtrix a Sr Sg, he must turn to the right-hand side. Hence,, by the aid of the, direction-finder outflt 5 furnished with an indica.ior; or signal -device as hereinbefore disclosed, in conjunction with two radio beacons, it is possible to keep the craft exactly on the line a Sg Sr without the use of a compass. The application of this invention to 10 marine vessels is especially desirable whenever such vessels are obliged to travel thorugh comparatively narrow channels of water. If in addition to the two radig beacon@ Sr and Sg defining the steering line, there is a third 15 transniitter Sb located laterally with respect to the line Sr Sg (see Mg. 5) th6n a third lamp, say the blue lamp b may be coordinated thereto in the direction-finder. Then, by the aid of the known distance between the said radio beacon 20 Sb and the landing point x lo-cated say at an airport or liarbor and the bearing angle a, indicated by indicator b it is easily possible to estimate the distance of the craft from the landing place or destination. I:n this manner it is 25 possible to begin the landing of an aircraft at a definite point as for instance d where the angle cL has a certain and definite -value, say, 45 degrees, and then to land at the point xwhere the light picture of the indicator b bears a quadra- 30 ture relation with respect to the light picture of x and g. In order that the landing of aircraft may always be effected against the direction 6f the wind, it is advisable to mount a greater number 35 of radio beacons in the vicinity of the landing place or airport, and of these three are to be in operation in accordane with the direction of the wind prevailirig at any given time. An arrangement of this kind comprises four 40 radio beacons S'l, S2, S3, and S4 as indicated in Flg. 6. For instailee, if the wind blows in the direction from Si to S2, then the direction of landing is SI to x. The radio beacons SI and S2 and S3, respectively play the part of the t5 radio beacons Sg, Sr, and Sb, respectively, in Mg. 5. The radio beacon Si is coordinated, for example, to the red lamp of the aircraft direction-finder outfit and is modulated by 500 cycles per second; transmitter b2 to the green lamp 50 and modulated by.700 cycles@per second, transniitter S3 to the blue lamp and modulati-,d by 900 cycles per second. The iradio beacon S4 is inoperative. Now, upon the direction of the wind changing 55 into that from S4 to S3, then the radio beacon S2 is disconnected, S4 is connected, and modwated by 500 cycles per second, wwle the modulating frequencies of radio beacons SI and S3 aie now 700 and 900 cycles per second reipectively. 60 The change-ovpr of the tmnsniitters can be accomplished aut@imatically in dependence upon .ome suitable device indicatoing the direction of the wind. I claim: 65 1. Apparatus for taking bearings from one or more radio beacons comprising a rotatable crossed loop direction finder aerial, a fixed graduated scale, a rotatal5le optical indicating means locate:1 within said scale comprising a pluiality 70 of optical indicators radially mounted upbn a rotatable

support, driving means connecting said aerial and said optical indicators, mea:ns for controlling said Indicators including a p@urarty of @eparate relay resonant cir@uiti Interposed be- 75

2,017,908 3 tween said frame aerial and said indicators, each one of said resonani circuits and each of said indicators having contact elements combined with each relay so as to be controlled by the co- ordination of the frequencies of a radio beacon. 2. In radio <u>direction</u> finder receiving apparatus comprising a rotatable crossed fiame aerial, a receiver having an output circuit dombined with said aerial, said output clicuit divided 10 into a plurality of separate c.ircuits, each of said separate circuits being responsive to a different frequency, a rotatable disk having angular graduations thereon, a plurality of different colored lamps mounted on said disk, each be- i5 ing arranged on a different radius and connected to different portions of said output circuit so as to correspond to a predeterniined frequency, the output of said receiver having each.separate circuit being tuned by a separate relay each bav- 20 ing a separate diaphragm tuned to respond to a definite frequency and electrical contacts arranged with said colored lamps so as to present a light pkth of different colors on said scale by means of said lamps with a relatively narrow 25 segment of light to indicate by a definite pattem the position of minimum signal strength received by said receiver. 3. A direction finder receiving device comprising a rotatable cross-looped frame aerial includ- 30 ing a fixed graduated scale, a synchronously rotatable optical indicator located within said scale having a plurality of optical indicators radially mounted upon a rotatable support, means for illuminating said Indicators including a plurality 35 of separate low frequency resonant circuits having separate relays, each separate relay having a diaphragm and contact member for cooperating with said receiving device to operate the illuminating means of said optical indicators. 40 4. An aircraft radio receiving device for noting a plurality of landing bearings from a plurality. of flxed iadio beacons located in the vicinity of an. air ort comprising crossed loops having a weather proof covering, a rotatable 45 search coil arranged with rotatable optical indicating means having a plurality of different identitying means and a corresponding numb.er of low frequency resonant circuits having magnetic relays, each magnetic relay having a sep- 50 arate diaphragm and contgcting elements arranged to coopemte with said receiving device to illuminat@& said optical indicating means so that a definite relation between each of the dif, ferent indicators is established. , - 55 5. An aircraft radio receiving device for noting a plurality of landing bearings from a plurality@ of fixed radio beacons located in the vicinity of an airport, comprising crossed loops hav- ing a weather proof covering, a rotatable search coil arranged to be simultaneously rotatable with optical Indicating scale having a plurality of different color-identifying means, each optical indicating means arranged to ;be rotatable In a 5 concentric path of different radii and a corre-' sponding number of low audio frequency resonant circuits having magnetic relays, each relay having a diaphragm and separate contacting elements for cooperating with said receiving device 10 to illuminate said optical indicating means so that a definite relation between the different color indicators is established. 6. In radio direction findlir apparatus, combination of a weatherproof crossed frame 15 aerial having connected therewith a receiver having an output circuit, said output circuit having portions which are resonant to different signal frequencies, a rotatable disk, a plurality of different colored lamps mounted upon said disk, 20 each of said colored larilps being mounted on a different radius and connected to a different portion of said output citcuit and driven means.for rotating a search coil simultaneously with said disk, identifying means arranged with thn Con-25 tacts of a plurality of separate relays, each relay having a separate diapbragm tuned to respond to a definite frequency, and electrical contacts arranged with said colored lamps so as to present a light path of differelit color on said 30 disk by means of said lamps with a relatively narrow segment of light to indicate by a definite pattern the position of minimum signal strength received by said receiver. .7. In radio direction finder receiving appa- 35 ratiis, comprising a rotatable aerlal, a receiver having an output circuit combined with said aerial, said output circuit

divided into a plurality of separate circuits, each of said separate circuits being res]@onsive to a different frequency, 40 a rotatable member having graduations thereon, a plurality of different indicating means mounted upon said rotatable member, each different Indicating means arranged on a different radius on said rotat@tble member and connected to dif- 45 ferent pertions of output circuit so as to correspond to a predetermined freq'uency, the output of said receiver having each keparate circuit tuned to be responsive to separate relay means so as te respond to a definit@ frequency, and 50 electrical means arranged with said different indicating means so as to present an optical path having different identifying means on stid scale to indicate by a definite pattern the position of miniinum signal strength received by said re- 55 ceiver. AUGUST T

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L23: Entry 2 of 2 File: USOC Oct 22, 1935

DOCUMENT-IDENTIFIER: US 2017908 A TITLE: Direction finding apparatus

OCR Scanned Text (5):

2,017,908 3 tween said frame aerial and said indicators, each one of said resonani circuits and each of said indicators having contact elements combined with each relay so as to be controlled by the co- ordination of the frequencies of a radio beacon. 2. In radio direction finder receiving apparatus comprising a rotatable crossed fiame aerial, a receiver having an output circuit dombined with said aerial, said output clicuit divided 10 into a plurality of separate c.ircuits, each of said separate circuits being responsive to a different frequency, a rotatable disk having angular graduations thereon, a plurality of different colored lamps mounted on said disk, each be- i5 ing arranged on a different radius and connected to different portions of said output circuit so as to correspond to a predeterniined frequency, the output of said receiver having each.separate circuit being tuned by a separate relay each bav- 20 ing a separate diaphragm tuned to respond to a definite frequency and electrical contacts arranged with said colored lamps so as to present a light pkth of different colors on said scale by means of said lamps with a relatively narrow 25 segment of light to indicate by a definite pattem the position of minimum signal strength received by said receiver. 3. A direction finder receiving device comprising a rotatable cross-looped frame aerial includ- 30 ing a fixed graduated scale, a synchronously rotatable optical indicator located within said scale having a plurality of optical indicators radially mounted upon a rotatable support, means for illuminating said Indicators including a plurality 35 of separate low frequency resonant circuits having separate relays, each separate relay having a diaphragm and contact member for cooperating with said receiving device to operate the illuminating means of said optical indicators. 40 4. An aircraft radio receiving device for noting a plurality of landing bearings from a plurality. of flxed iadio beacons located in the vicinity of an. air ort comprising crossed loops having a weather proof covering, a rotatable 45 search coil arranged with rotatable optical indicating means having a plurality of different identitying means and a corresponding numb.er of low frequency resonant circuits having magnetic relays, each magnetic relay having a sep- 50 arate diaphragm and contgcting elements arranged to coopemte with said receiving device to illuminat@& said optical indicating means so that a definite relation between each of the dif, ferent indicators is established. , - 55 5. An aircraft radio receiving device for noting a plurality of landing bearings from a plurality@ of fixed radio beacons located in the vicinity of an airport, comprising crossed loops hav- ing a weather proof covering, a rotatable search coil arranged to be simultaneously rotatable with optical Indicating scale having a plurality of different color-identifying means, each optical indicating means arranged to ;be rotatable In a 5 concentric path of different radii and a corre-' sponding number of low audio frequency resonant circuits having magnetic relays, each relay having a diaphragm and separate contacting elements for cooperating with said receiving device 10 to illuminate said optical indicating means so that a definite relation between the different color indicators is established. 6. In radio direction findlir apparatus, combination of a weatherproof crossed frame 15 aerial having connected therewith a receiver having an output circuit, said output circuit having portions which are resonant to different signal frequencies, a rotatable disk, a

plurality of different colored lamps mounted upon said disk, 20 each of said colored larilps being mounted on a different radius and connected to a different portion of said output citcuit and driven means.for rotating a search coil simultaneously with said disk, identifying means arranged with thn Con-25 tacts of a plurality of separate relays, each relay having a separate diapbragm tuned to respond to a definite frequency, and electrical contacts arranged with said colored lamps so as to present a light path of differelit color on said 30 disk by means of said lamps with a relatively narrow segment of light to indicate by a definite pattern the position of minimum signal strength received by said receiver. .7. In radio direction finder receiving appa- 35 ratiis, comprising a rotatable aerlal, a receiver having an output circuit combined with said aerial, said output circuit divided into a plurality of separate circuits, each of said separate circuits being res]@onsive to a different frequency, 40 a rotatable member having graduations thereon, a plurality of different indicating means mounted upon said rotatable member, each different Indicating means arranged on a different radius on said rotat@tble member and connected to dif- 45 ferent p6rtions of output circuit so as to correspond to a predetermined freq'uency, the output of said receiver having each keparate circuit tuned to be responsive to separate relay means so as t6 respond to a definit@ frequency, and 50 electrical means arranged with said different indicating means so as to present an optical path having different identifying means on stid scale to indicate by a definite pattern the position of miniinum signal strength received by said re- 55 ceiver. AUGUST T

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Generate Collection Bkwd Refs Generate OACS Clear Print. Fwd Refs Search Results - Record(s) 1 through 10 of 10 returned. 1. Document ID: US 20020099574 A1 Using default format because multiple data bases are involved. L28: Entry 1 of 10 File: PGPB Jul 25, 2002 PGPUB-DOCUMENT-NUMBER: 20020099574 PGPUB-FILING-TYPE: new DOCUMENT-IDENTIFIER: US 20020099574 A1 TITLE: Method of electronically reserving a space for parking a vehicle PUBLICATION-DATE: July 25, 2002 INVENTOR-INFORMATION: NAME CITY STATE COUNTRY RULE-47 Cahill, John J. CA Pleasanton US Colby, Charles Palo Alto CA US Parker, Marty Paso Robles CA US Hinojo, Rudy Paso Robles CA US Palo Alto Soper, Emmet H. CA US US-CL-CURRENT: 705/5 Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1990 Draw De ☐ 2. Document ID: US 6813608 B1 L28: Entry 2 of 10 File: USPT Nov 2, 2004 US-PAT-NO: 6813608 DOCUMENT-IDENTIFIER: US 6813608 B1 ** See image for <u>Certificate of Correction</u> ** TITLE: System and method for enhancing user experience in a wide-area facility having a distributed, bounded environment 3. Document ID: US 6611206 B2

US-PAT-NO: 6611206

L28: Entry 3 of 10

DOCUMENT-IDENTIFIER: US 6611206 B2

File: USPT

Aug 26, 2003

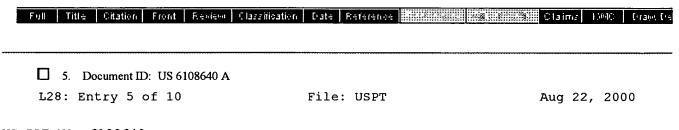
TITLE: Automatic system for monitoring independent person requiring occasional assistance

Full Title Citation Front Review Ci	lassification Date F	(eference	Claime l	Man Trans De
☐ 4. Document ID: US 6556950 B1 L28: Entry 4 of 10	File:	IISPT	Apr 29,	2003

US-PAT-NO: 6556950

DOCUMENT-IDENTIFIER: US 6556950 B1

TITLE: Diagnostic method and apparatus for use with enterprise control



US-PAT-NO: 6108640

DOCUMENT-IDENTIFIER: US 6108640 A

TITLE: System for calculating occasion dates and converting between different

calendar systems, and intelligent agent for using same

Full Title Citation Front Review	Classification Date Reference	Claims 15000 Draw De
☐ 6. Document ID: US 6073105 A		
L28: Entry 6 of 10	File: USPT	Jun 6, 2000

US-PAT-NO: 6073105

DOCUMENT-IDENTIFIER: US 6073105 A

TITLE: Interactive personals online network method and apparatus

Full Title Citation Front Review (Classification	Date Reference	Claims	15000	Praint D
					
7. Document ID: US 5983200 A	,				

US-PAT-NO: 5983200

DOCUMENT-IDENTIFIER: US 5983200 A

** See image for Certificate of Correction **

TITLE: Intelligent agent for executing delegated tasks

8. Document ID: US 5913212 A L28: Entry 8 of 10 File: USPT Jun 15, 1999 US-PAT-NO: 5913212 DOCUMENT-IDENTIFIER: US 5913212 A ** See image for Certificate of Correction ** TITLE: Personal journal 9. Document ID: US 5845256 A Dec 1, 1998 L28: Entry 9 of 10 File: USPT US-PAT-NO: 5845256 DOCUMENT-IDENTIFIER: US 5845256 A TITLE: Interactive self-service vending system ☐ 10. Document ID: US 5424524 A L28: Entry 10 of 10 File: USPT Jun 13, 1995 US-PAT-NO: 5424524 DOCUMENT-IDENTIFIER: US 5424524 A TITLE: Personal scanner/computer for displaying shopping lists and scanning barcodes to aid shoppers Full Title Citation Front Review Classification Date Reference (1997) Full Title Citation Front Review Classification Date Reference Bkwd Refs Generate OACS Clear Generate Collection Print Fwd Refs Terms Documents 10 L27 or L26 Change Format **Display Format:** Go to Doc# Previous Page Next Page

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear Generate Collection Print Fwd Refs Generate OACS Bkwd Refs Search Results - Record(s) 1 through 6 of 6 returned. ☐ 1. Document ID: US 6813608 B1 Using default format because multiple data bases are involved. L29: Entry 1 of 6 File: USPT Nov 2, 2004 US-PAT-NO: 6813608 DOCUMENT-IDENTIFIER: US 6813608 B1 ** See image for Certificate of Correction ** TITLE: System and method for enhancing user experience in a wide-area facility having a distributed, bounded environment DATE-ISSUED: November 2, 2004 INVENTOR-INFORMATION: NAME CITY STATE ZIP CODE COUNTRY Baranowski; Robert San Diego CA

US-CL-CURRENT: <u>705/6</u>; <u>705/5</u>

Full Title Citation Front Review Classification Date Reference Cla

US-PAT-NO: 6611206

DOCUMENT-IDENTIFIER: US 6611206 B2

TITLE: Automatic system for monitoring independent person requiring occasional

assistance

US-PAT-NO: 6556950

DOCUMENT-IDENTIFIER: US 6556950 B1

TITLE: Diagnostic method and apparatus for use with enterprise control

Full Title Citation Front Review Class	affication Date Reference	Claims 13000 Cr.
☐ 4. Document ID: US 5913212 A		
L29: Entry 4 of 6	File: USPT	Jun 15, 1999
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S-PAT-NO: 5913212 OCUMENT-IDENTIFIER: US 5913212 A * See image for <u>Certificate of (</u>		
TLE: Personal journal		
Full Title Citation Front Review Class	rification Date Reference	Claims BMC (r
5. Document ID: US 5845256 A		
L29: Entry 5 of 6	File: USPT	Dec 1, 1998
	A	
S-PAT-NO: 5845256 OCUMENT-IDENTIFIER: US 5845256 A		
OCUMENT-IDENTIFIER: US 5845256 A		Claims 6000 to
OCUMENT-IDENTIFIER: US 5845256 A	vending system	Olaima Biolo Dr
OCUMENT-IDENTIFIER: US 5845256 A ITLE: Interactive self-service v Full Title Citation Front Review Class	vending system	Jun 13, 1995
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OCUMENT-IDENTIFIER: US 5845256 A ITLE: Interactive self-service v Full Title Citation Front Review Class 6. Document ID: US 5424524 A L29: Entry 6 of 6 S-PAT-NO: 5424524 OCUMENT-IDENTIFIER: US 5424524 A ITLE: Personal scanner/computer arcodes to aid shoppers Full Title Citation Front Review Class	vending system File: USPT A for displaying shopping l Files Reference	Jun 13, 1995 ists and scanning

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L29: Entry 1 of 6 File: USPT Nov 2, 2004

DOCUMENT-IDENTIFIER: US 6813608 B1

** See image for Certificate of Correction **

TITLE: System and method for enhancing user experience in a wide-area facility having a distributed, bounded environment

Application Filing Date (1): 20000314

Brief Summary Text (9):

Consequently, there is a need in the art for a method and system of providing enhanced customer service in a wide-area facility. Specifically, there is a need for better systems and methods of providing <u>directional</u> and product information to customers in a wide-area facility, preventing long lines for services within the wide-area facility and facilitating communication between separated members of a group making use of the wide-area facility.

Brief Summary Text (11):

It is an object of the present invention to address the above-described problems and others. Specifically, it is an object of the present invention to provide a method and system of providing enhanced customer service in a wide-area facility. More specifically, some of the objects of the present invention include providing a method and system of better providing <u>directional</u> and product information to customers in a wide-area facility, preventing long lines for services within the wide-area facility and facilitating communication between separated members of a group making use of the wide-area facility.

Detailed Description Text (5):

As shown in FIG. 1, the primary interaction that a customer has with the system is through a portable device (100). As will be explained in detail below, this device (100) can allow a customer to determine his or her own location and obtain directions to an attraction, facility or product. The device (100) can also be used to communicate messages, either audio or visual, with others of the customer's group. The device (100) can also be used to manage the customer's schedule within the wide-area facility to avoid long lines. The device (100) may also allow the customer to make purchases or view advertisements, again, to avoid long lines at point-of-sale equipment.

<u>Detailed Description Text</u> (48):

Since voice packets will be going from base to base in both <u>directions</u>, some knowledge of the path taken can be used to minimize system overhead. For example, referring to FIG. 1, if the voice packets are transmitted from base 101, those packets will be received by both base (102) and base (106). If the portable device of the intended recipient is in communication with base (103), base (102) should retransmit the voice packets to base (103) while base (106) should ignore the incoming voice packets. The best transmission paths are periodically updated to reflect changes in device location or system characteristics.

Detailed Description Text (56):

As mentioned above, the system of the present invention can be used to enhance customer service and experience in a wide variety of different types of wide-area

facilities. Examples in the area of commercial sales include large stores, wholesale outlets, and malls. Merchants in this market face the problem of getting customers attention as they are passing by and giving shoppers exactly what they need without overstaffing the store. The system of the present invention gives customers an interactive map to find the stores they are looking for. Using the messaging features of the system, a customer can search the mall or store database for a particular item, then be given directions on how to find and purchase the item.

Detailed Description Text (84):

The physical identification (608) could also include magnetic strip encoded to identify the members of a group. The magnetic strip could be, as above, placed on a card, wristband, pendant or the like and inserted in a magnetic strip reader (607) at the preferential entrance (602) to the attraction (600). The physical identification (608) could also be a proximity card or device which is sensed when placed in proximity to a sensor (607) at the preferential entrance (602). Any device capable of identifying the members of a group at a preferential entrance (602) so as to control the number of persons admitted in accordance with existing reservations and fees paid can be used under the principles of the present invention. However, some identification devices may have unobvious advantages over others.

<u>Current US Original Classification</u> (1): 705/6

<u>Current US Cross Reference Classification</u> (1): 705/5

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☐ Generate Collection Print

L29: Entry 2 of 6

File: USPT

Aug 26, 2003

DOCUMENT-IDENTIFIER: US 6611206 B2

TITLE: Automatic system for monitoring independent person requiring occasional assistance

Application Filing Date (1): 20010315

Brief Summary Text (15):

In another application area, machines automatically detect an occupant's presence or specific features of the occupant for purposes of machine-authorization and authentication or convenience. To that end, some prior art systems employ biometric sensing, proximity detectors, radio frequency identification tags, or other devices.

Detailed Description Text (5):

Referring now to FIG. 3, a functional diagram of an event driven architecture that may be used to monitor an occupied zone separates the object illustrated by the single "black box" of classifier 510, into multiple objects whose outputs are combined to classify alarm conditions. Audio input 245, video input 255, and other user interface devices (not shown) generate signals that are applied to respective classifiers 210, 240. The audio input 245, which may be received by a microphone (not shown separately) or a <u>directional</u> audio detector (not shown separately) which indicates both the sound and its <u>direction</u>, or any other suitable audio transducer, may be applied to an audio classifier 210. The latter data form a real-time signal, which the audio classifier 210 classifies by suitable digital or analog means or a combination thereof. The audio classifier 210 then generates a current state information signal which it applies to both a mental state/health status classifier 290 and an event/class processor 207.

<u>Current US Cross Reference Classification</u> (8): 705/2

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Generate Collection Print

L29: Entry 4 of 6 File: USPT

Jun 15, 1999

DOCUMENT-IDENTIFIER: US 5913212 A

** See image for Certificate of Correction **

TITLE: Personal journal

Application Filing Date (1):

19970613

DATE ISSUED (1):

19990615

Brief Summary Text (16):

The system may include a variety of ways for users to identify other users for inclusion in the personal journal. In one embodiment, the personals system includes a variety of profile data regarding each of the users of the system. The profile data may include both characteristic data, which describes the user who wishes to identify other users, and criteria data, which describes the criteria that the user would like to find in other users of the system. Using this data, the system of the invention may provide profile searching capabilities to allow a user to identify other users having certain characteristics. The system of the invention may also provide a bi-directional matching function which compares a user's characteristic and criteria data to the characteristic and criteria data of other users.

Detailed Description Text (12):

The ATS machines 48.sub.l -48.sub.K are local in the sense of being located in relatively close proximity to the vendor and the ATS machines 44.sub.l -44.sub.N are remote in the sense of, generally, being located a significant distance from the vendor. Each of the remote ATS machines 44.sub.l -44.sub.N is located proximal to one or more of the vendor's clients, thereby enabling responses to personals to be made with less expensive telephone calls. In the illustrative embodiment, there are on the order of thirteen local ATS machines 48.sub.l 48.sub.K and on the order of eighty remote ATS machines 44.sub.l -44.sub.N. However, it will be appreciated by those of ordinary skill in the art that the number of ATS machines, both local and remote, is a function of the number of clients serviced by the vendor, their geographic locations and the capability of each ATS machine.

Detailed Description Text (32):

A user can request a search of the database for other users based on characteristic and criteria data. In another embodiment, the system can periodically examine the database to search for users for which there is a bi—directional match of characteristic and criteria data. A search string is formed to match the user's criteria data with the characteristic data of other users and the user's characteristic data with the criteria data of the other users. After forming the search string, the database is searched using the string to obtain a list of matches. The search results in the form of matches, may then be provided to the user. Searching and matching functions which may be provided with the PON system are described in greater detail in pending U.S. patent application Ser. No. 08/874,564 entitled "Method and Apparatus for Matching Registered Profiles" which is assigned to the assignee of the present invention, filed on even date herewith, and incorporated herein by reference.

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L29: Entry 5 of 6

File: USPT

Dec 1, 1998

DOCUMENT-IDENTIFIER: US 5845256 A

TITLE: Interactive self-service vending system

Application Filing Date (1):

19971117

DATE ISSUED (1):

19981201

Detailed Description Text (12):

The features of the software and the operation of a stand-alone terminal 10 of the invention are shown and illustrated in the flow chart of FIGS. 4A-4J. Before discussing the flow-chart, it is to be noted that a series of messages are displayed on display screen 20. As is well know in the art, such messages are first assembled in an image RAM or buffer under the <u>direction</u> of the software from fixed disk drive 40, removable disk drive 36 and/or video disk player 46 and are then transferred through video mixer 64 to the video display 20. The software establishes an interactive dialogue between the terminal and the customer by displaying screens on display 20 directing questions or instructions to the customer. The customer, in turn, responds by touching an appropriate spot on touch screen 21, inputting information through keyboard 16 or signing pad 18, or otherwise following the directions displayed on the screen. This aspect of the software and the hardware means used in implementing it and the customers responses are referred to herein as "interactive means". However, "the terminal" or "the station" will be understood as referring to the source of functions originating in the software for generating a message displayed on screen 20 or any other software functions.

Detailed Description Text (13):

Referring to FIG. 4A, upon connecting the terminal to a supply of electrical power at 100 ("power up"), a determination is made at 102 as to whether a customer is present. In one embodiment, proximity detector 76 senses the customer as he or she approaches terminal 10. In a second embodiment, display screen 20 displays a sales message ("Attraction Screen 1") instructing the customer to touch touch screen 21, if he or she is interested in an insurance policy being vended by the system. If a customer's presence is not sensed by proximity detector 76 or if, for the second embodiment, the customer does not touch touch screen 21, a "NO" output causes at 104 display of "Attraction Screen 1" on screen 20. If, however, a customer has been sensed by proximity detector 76, or the customer has touched touch screen 21, a "YES" output causes the terminal to clear all buffers at 106.

<u>Current US Original Classification</u> (1): 705/4

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End of Result Set

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Generate Collection Print

L29: Entry 6 of 6 File: USPT Jun 13, 1995

DOCUMENT-IDENTIFIER: US 5424524 A

TITLE: Personal scanner/computer for displaying shopping lists and scanning

barcodes to aid shoppers

<u>Application Filing Date</u> (1): 19930624

<u>DATE ISSUED</u> (1): 19950613

Detailed Description Text (21):

Query 86 represents the process of scanning the keyboard and waiting for the scan button 20 in FIG. 1 to be pushed. When it is pushed, the Personal Scanner.TM. assumes that the bar code of the item to be placed in the basket has been placed within range of the scanning window 18, and scanning proceeds in a known fashion. In alternative embodiments, the button 20 can be eliminated and a scanner with proximity sensing capability may be substituted. Such scanners are commercially available and sense when they have been placed adjacent to a bar code. Such scanners automatically scan and decode any bar code placed within view. The process of scanning the bar code and converting the resulting pattern of signals from the bar code scanning apparatus to ASCII (or EBCDIC etc.) characters is well known in the art. Basically, the bar code scanner 46 converts the bars and spaces of the bar code pattern to a signal waveform that makes transitions between two digital levels in a predetermined unique pattern for each unique bar code. This unique bar code pattern waveform is transmitted to microprocessor 40 via bus 47 where the waveform is applied to a decoder which converts the pattern to a series of ASCII characters, and usually calculates a checksum to check the validity of the decoded characters and releases the decoded characters after verifying a correct checksum. Equipment to do this is commercially available from several sources including Densei Nippon Electric Industries of Tokyo, Japan. Generally, bar code scanners come in three classes: lasers which are expensive and consume large amounts of power, LED devices which must be physically moved past a bar code and which consume large amounts of power and CCD imaging devices which image the entire bar code and then electronically scan it and convert it to the unique waveform representing the bar code. It is the CCD class of bar code scanners which work best for the Personal Scanner.TM. device application because they need not be in contact with the bar code and they consume less power than many other types of bar code scanners. Densei makes CCD type bar code scanners such as the Model BCH5532 Bar Code Reader. The details of the Densei line of CCD bar code scanners in general, and the Model BCH5532 scanner in particular are hereby incorporated by reference. Other types of bar code scanners will also work such as the bar code scanner disclosed in U.S. Pat. No. 4,204,636 to Hayman, which is hereby incorporated by reference. After a bar code has been successfully scanned and decoded, the microprocessor 40 sends a suitable waveform to the piezoelectric sounding device 89 in FIG. 3 to give the user an audible tone that the bar code has been successfully scanned.

Detailed Description Text (30):

One of the possible benefits of use of the Personal Scanner.TM. device is that it may make it possible for grocery stores to reduce their headcount in using fewer

8/7/05

checkout clerks since the checkout line will move much faster. Obviously because the Personal Scanner.TM. device can electronically transfer the information therein to the store register much faster than a checkout clerk can scan each item in a shopper's basket, the checkout lines should move much faster. One concern grocery stores will have of course is in the area of security. To prevent shoppers from putting things in their carts which have not been scanned and then leaving the store with them, in one alternative embodiment, a security strip deactivation system is employed. In the preferred embodiment, the security strip is a magnetic strip upon which other information such as the unit price etc. may be printed. These magnetic strips, when not deactivated and passed through an alternating current magnetic field, cause intermodulation products which can be detected and which set off alarms. These magnetic strips can be deactivated so that the intermodulation products are not created by exposing them to a D.C. or permament magnet field. Accordingly, in embodiments in which the security strip deactivation system is used, two or more permanent magnets 120 and 122 are mounted on the end of the Personal Scanner.TM. device adjacent to the scanning window 18 as shown in FIGS. 1 and 2. These magnets are permanent magnets and each has a north and south pole. The magnets 120 and 122 are mounted such that their north and south poles face in opposite directions so as to strengthen the magnetic field that they create in front of the scanning window 18. In other words, if permanent magnet 120 has its north pole facing inward toward the casing of the Personal Scanner.TM. device, then permanent magnet 122 will be mounted to have its south pole facing inward toward the casing. Such a system is disclosed in U.S. Pat. No. 5,187,354, which is hereby incorporated by reference. For embodiments using memory which is sensitive to magnetic fields such that data might be lost such as hard disks or floppy disks used in palmtop computers adapted to the Personal Scanner.TM. device functions, it is preferred to provide some magnetic shielding between the magnets 120 and 122 and any memory which is magnetically sensitive. Such shielding can be some metal which prevents magnetic field lines from penetrating therethrough.

<u>Current US Original Classification</u> (1): 705/8

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V	USPT	6314406.PN.	YES	ORASSIGNEE L2
V	USPT	L2 AND (PROXIM\$ WITH SENS\$)	YES	ORASSIGNEE L3
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Q3	20020165731	PGPB	ASSIGNEE	OR	YES
Q4	20020174021	PGPB,USPT	ASSIGNEE	OR	YES

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Using default format because multiple data bases are involved.

L21: Entry 1 of 4 File: USPT Oct 8, 1996

Dec 16, 1986

US-PAT-NO: 5563612

DOCUMENT-IDENTIFIER: US 5563612 A

TITLE: Frequency multiplier circuitry for radio beacons

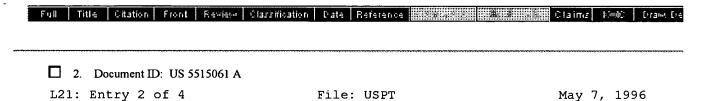
DATE-ISSUED: October 8, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Flood; John F. Plantation 33317 FLHavens; Richard C. Plantation FL33324

US-CL-CURRENT: 342/385; 331/53



US-PAT-NO: <u>5515061</u>

DOCUMENT-IDENTIFIER: US 5515061 A

TITLE: System for broadcasting marker beacon signals and processing responses from

seeking entities

Full Title Citation Front Review Classification Date Reference 3. Document ID: US 4630289 A

File: USPT

US-PAT-NO: 4630289

DOCUMENT-IDENTIFIER: US 4630289 A

L21: Entry 3 of 4

TITLE: Emergency locator transmitter incident time correlator

4. Document ID: US 4394777 A

L21: Entry 4 of 4

File: USPT

Jul 19, 1983

US-PAT-NO: 4394777

DOCUMENT-IDENTIFIER: US 4394777 A

** See image for Certificate of Correction **

TITLE: Method of and system for classifying emergency locating transmitters and emergency positions indicating radio beacons

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Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS Search Results - Record(s) 1 through 10 of 11 returned. 1. Document ID: US 20040030491 A1 Using default format because multiple data bases are involved. L17: Entry 1 of 11 Feb 12, 2004 File: PGPB PGPUB-DOCUMENT-NUMBER: 20040030491 PGPUB-FILING-TYPE: new DOCUMENT-IDENTIFIER: US 20040030491 A1 TITLE: Method and arrangement for guiding a user along a target path PUBLICATION-DATE: February 12, 2004 INVENTOR-INFORMATION: STATE COUNTRY RULE-47 NAME CITY Hull, Richard Bristol GB US-CL-CURRENT: 701/207; 701/200 Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1990 Praise De 2. Document ID: US 6275164 B1 L17: Entry 2 of 11 File: USPT Aug 14, 2001 US-PAT-NO: 6275164 DOCUMENT-IDENTIFIER: US 6275164 B1 TITLE: Emergency locator system ☐ 3. Document ID: US 2107155 A L17: Entry 3 of 11 File: USPT Feb 1, 1938 US-PAT-NO: 2107155 DOCUMENT-IDENTIFIER: US 2107155 A TITLE: Radio directional indicator [TEXT AVAILABLE IN USOCR DATABASE]

4. Document ID: US 20040132467 A1, EP 1388973 A1, GB 2391626 A, GB 2391661 A, GB 2391662 A, GB 2391663 A, GB 2391759 A, GB 2391760 A, GB 2391761 A, GB 2391773 A, GB 2391782 A, US 20040030491 A1, US 20040030494 A1, US 20040030832 A1

L17: Entry 4 of 11

File: DWPI

Jul 8, 2004

DERWENT-ACC-NO: 2004-182046

DERWENT-WEEK: 200445

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Providing information about a real-world space using virtual markers deposited in respect of users of space, involves using data about current strength of stored markers in service system to provide information relevant to use of space

5. Document ID: US 6275164 B1 L17: Entry 5 of 11 File: DWPI Aug 14, 2001

DERWENT-ACC-NO: 2001-579152

DERWENT-WEEK: 200165

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Emergency locator beacon device for hikers, has transmitter to transmit digital version of unit identification and voice unit identification message

Full Title Citation Front Review Classification Date Reference 6. Document ID: RU 2107155 C1 L17: Entry 6 of 11 File: DWPI Mar 20, 1998

DERWENT-ACC-NO: 1998-519096

DERWENT-WEEK: 199844

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Oil recovery by water injection below seam fracturing pressure - with production stopped until seam pressure rise to set level, then started with drawdown pressure control ensuring set level of production

7. Document ID: EP 654617 A1, ES 2107155 T3, FR 2712646 A1, EP 654617 B1, DE 69406088 E

L17: Entry 7 of 11

File: DWPI

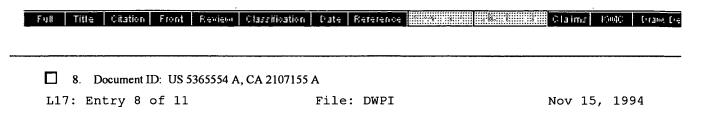
May 24, 1995

DERWENT-ACC-NO: 1995-187305

DERWENT-WEEK: 199801

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Elastic articulation with controlled axial rigidity, between railway wagon bogie chassis and axle box - comprises concentric internal and external tubular armatures with elastic material, adhered between annular surfaces, pre-stressed during assembly



DERWENT-ACC-NO: 1994-366422

DERWENT-WEEK: 199445

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Instrumentation probe for on-line measurement - within fluid duct with

propulsion by fluid flow

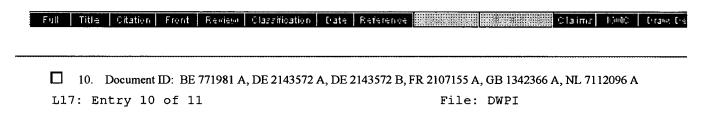


DERWENT-ACC-NO: 1983-F2065K

DERWENT-WEEK: 198316

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Television ghost signal detector with colour burst phase delay control - has tracking circuit responsive to delayed signal component and coincidence circuit for detecting training signal at output of delay-line

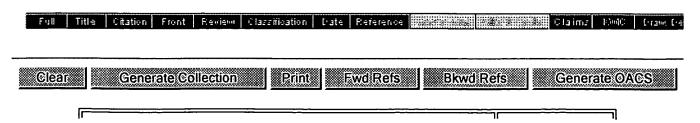


DERWENT-ACC-NO: 1972-16283T

DERWENT-WEEK: 197210

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TITLE: Wire coating - by passing heated wire through bath of thermosetting resin and removing excess resin by passing coated wire through



Terms	Documents
['6275164' '20040030491' '2107155')[PN]	11

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Generate Collection Clear ... Print Fwd Refs Bkwd Refs Generate OACS Search Results - Record(s) 1 through 10 of 11 returned. 1. Document ID: US 20040030491 A1 Using default format because multiple data bases are involved. L17: Entry 1 of 11 File: PGPB Feb 12, 2004 PGPUB-DOCUMENT-NUMBER: 20040030491 PGPUB-FILING-TYPE: new DOCUMENT-IDENTIFIER: US 20040030491 A1 TITLE: Method and arrangement for guiding a user along a target path PUBLICATION-DATE: February 12, 2004 INVENTOR-INFORMATION: NAME CITY STATE COUNTRY RULE-47 Hull, Richard Bristol GB US-CL-CURRENT: 701/207; 701/200 Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1990 Draw De ☐ 2. Document ID: US 6275164 B1 L17: Entry 2 of 11 File: USPT Aug 14, 2001 US-PAT-NO: 6275164 DOCUMENT-IDENTIFIER: US 6275164 B1 TITLE: Emergency locator system ☐ 3. Document ID: US 2107155 A Feb 1, 1938 L17: Entry 3 of 11 File: USPT US-PAT-NO: 2107155 DOCUMENT-IDENTIFIER: US 2107155 A TITLE: Radio directional indicator [TEXT AVAILABLE IN USOCR DATABASE]

4. Document ID: US 20040132467 A1, EP 1388973 A1, GB 2391626 A, GB 2391661 A, GB 2391662 A, GB 2391663 A. GB 2391759 A, GB 2391760 A, GB 2391761 A, GB 2391773 A, GB 2391782 A, US 20040030491 A1, US 20040030494 A1, US 20040030832 A1

L17: Entry 4 of 11

File: DWPI

Jul 8, 2004

DERWENT-ACC-NO: 2004-182046

DERWENT-WEEK: 200445

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Providing information about a real-world space using virtual markers deposited in respect of users of space, involves using data about current strength of stored markers in service system to provide information relevant to use of space

5. Document ID: US 6275164 B1 L17: Entry 5 of 11 File: DWPI Aug 14, 2001

DERWENT-ACC-NO: 2001-579152

DERWENT-WEEK: 200165

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Emergency locator beacon device for hikers, has transmitter to transmit digital version of unit identification and voice unit identification message

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DERWENT-ACC-NO: 1998-519096

DERWENT-WEEK: 199844

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Oil recovery by water injection below seam fracturing pressure - with production stopped until seam pressure rise to set level, then started with drawdown pressure control ensuring set level of production

Full	Titl∈	Citation	Front	Review	Classification	Date	Reference	1 0 0 0 0 d la	38 8 7 8	Claima	杨明〇	Отані, Ое	

	7.	Document I	D: EP 6	54617 A1	, ES 2107155 T	Γ3, FR 2	2712646 A1	, EP 654617 B	31, DE 69406088	3 E			

L17: Entry 7 of 11

File: DWPI

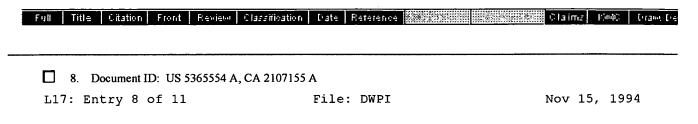
May 24, 1995

DERWENT-ACC-NO: 1995-187305

DERWENT-WEEK: 199801

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Elastic articulation with controlled axial rigidity, between railway wagon bogie chassis and axle box - comprises concentric internal and external tubular armatures with elastic material, adhered between annular surfaces, pre-stressed during assembly



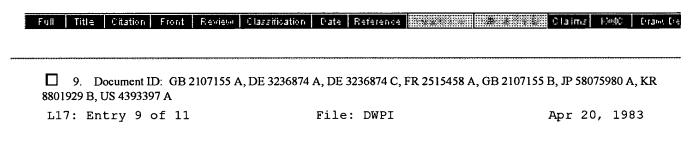
DERWENT-ACC-NO: 1994-366422

DERWENT-WEEK: 199445

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Instrumentation probe for on-line measurement - within fluid duct with

propulsion by fluid flow

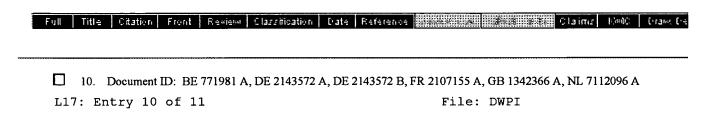


DERWENT-ACC-NO: 1983-F2065K -

DERWENT-WEEK: 198316

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Television ghost signal detector with colour burst phase delay control - has tracking circuit responsive to delayed signal component and coincidence circuit for detecting training signal at output of delay-line

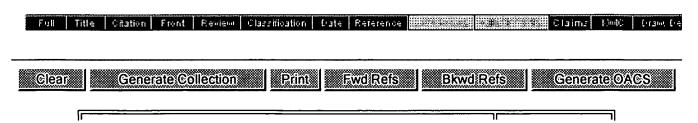


DERWENT-ACC-NO: 1972-16283T

DERWENT-WEEK: 197210

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Wire coating - by passing heated wire through bath of thermosetting resin and removing excess resin by passing coated wire through



Terms	Documents
('6275164' '20040030491' '2107155')[PN]	11

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Generate Collection **Bkwd Refs** Generate OACS Clear Print Fwd Refs Search Results - Record(s) 11 through 11 of 11 returned. 11. Document ID: US 2107155 A Using default format because multiple data bases are involved. L17: Entry 11 of 11 File: USOC Feb 1, 1938 US-PAT-NO: 2107155 DOCUMENT-IDENTIFIER: US 2107155 A TITLE: Radio directional indicator DATE-ISSUED: February 1, 1938 INVENTOR-NAME: KLEINKAUF JAMES D; MARTIN DE LOSS K US-CL-CURRENT: 342/407 Citation Front Review Classification Date Reference Claims 1900 Draw De Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS Documents Terms ('6275164'| '20040030491'| '2107155')[PN] 11

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Search Results - Record(s) 1 through 1 of 1 returned.												
1 .	Document ID: US 6314406 B1											
L3: E	Entry 1 of 1	File:	USPT		Nov 6, 2001							
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TITLE: Cu	stomer information net	work										
Full Ti	itle Citation Front Review Cla	esification Late	Reference	Seriasysaala (ra s a rassassas)	Cilaima (Biodic) (Franc. De							
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Generate Collection Bkwd Refs Generate OACS Clear Print Fwd Refs Search Results - Record(s) 1 through 1 of 1 returned. ☐ 1. Document ID: US 5299227 A Using default format because multiple data bases are involved. L9: Entry 1 of 1 File: USPT Mar 29, 1994 US-PAT-NO: 5299227 DOCUMENT-IDENTIFIER: US 5299227 A TITLE: Individual beacon identification system DATE-ISSUED: March 29, 1994 INVENTOR-INFORMATION: NAME CITY STATE ZIP CODE COUNTRY Rose; David Bowie MD US-CL-CURRENT: 342/45; 340/5.81, 340/825.49Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS Terms Documents L5 and (ship or aircraft or airplane) and audio\$ Change Format Display Format:

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Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20050120200 A1

Using default format because multiple data bases are involved.

L12: Entry 1 of 2

File: PGPB

Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050120200

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050120200 A1

TITLE: Limiting access to information corresponding to a context

PUBLICATION-DATE: June 2, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Brignone, Cyril

Mountain View

CA

US

Pradhan, Salil

Santa Clara

CA

US

US-CL-CURRENT: 713/154; 709/203

Full Tit	tle Citation	Front	Review	Classification	Date	Reference	Sequences	Attachmenta	Claims	D0010	Draw, De

2. Document ID: US 20040030491 A1

L12: Entry 2 of 2

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030491 A1

TITLE: Method and arrangement for guiding a user along a target path

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Hull, Richard

Bristol

GB

US-CL-CURRENT: 701/207; 701/200

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims NMC Draw De

Glear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Terms	Documents
L11 and (audio\$ with beacon\$)	2

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Generate Collection. Bkwd Refs Generate OACS Clear Print Fwd Refs

Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20050120200 A1

Using default format because multiple data bases are involved.

L15: Entry 1 of 4

File: PGPB

Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050120200

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050120200 A1

TITLE: Limiting access to information corresponding to a context

PUBLICATION-DATE: June 2, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Brignone, Cyril

Mountain View

CA

Pradhan, Salil

Santa Clara

CA

US US

COUNTRY

US-CL-CURRENT: 713/154; 709/203

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims Mod Draw De

2. Document ID: US 20040030491 A1

L15: Entry 2 of 4

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030491 A1

TITLE: Method and arrangement for guiding a user along a target path

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Hull, Richard

Bristol

GB

US-CL-CURRENT: 701/207; 701/200

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims 1990 Graw De

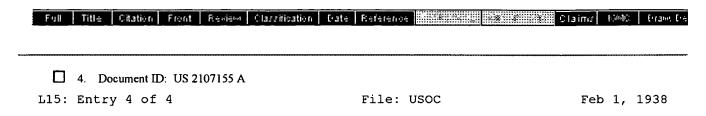
3. Document ID: US 6275164 B1

L15: Entry 3 of 4 File: USPT Aug 14, 2001

US-PAT-NO: 6275164

DOCUMENT-IDENTIFIER: US 6275164 B1

TITLE: Emergency locator system



US-PAT-NO: 2107155

DOCUMENT-IDENTIFIER: US 2107155 A

TITLE: Radio directional indicator

DATE-ISSUED: February 1, 1938

INVENTOR-NAME: KLEINKAUF JAMES D; MARTIN DE LOSS K

US-CL-CURRENT: 342/407

Full	Titl∈	Citation	Frent	Review	Classification	Date	Reference		6	∴ a. a. e	Claims	15000	Frame De
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L14 and (audio\$ with beacon\$)												4	

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